

**Successful TCP Job uses Record Setting Number of Time Delays**

**The Challenge:**

Denver based operator Solutions Energy had drilled a shallow 4,000' lateral well in an unconventional play near Minot, ND, and needed a completion method that would fit their budget while meeting the challenge of keeping fluid off the water-sensitive Carbonate-Mission Canyon formation and avoiding the need for costly H2s equipment.



**Our Response:**

After discussions with the client, who had no plans to stimulate the well, Allied-Horizontal recommended a TCP completion employing multiple time delays. Acting immediately, Operations successfully completed job preparations with less than a week's notice, including the challenge of locating a workover rig that was even capable of pulling the 120-ft spacing needed between each six-minute time delay.

**The Result:**

After extensive preparation and planning, the ball dropped on June 11, 2015, and Allied-Horizontal successfully completed the 28 ten-foot intervals using a US land record total of 30 time delays on a pulling unit supplied by Key Energy. In addition to completing flawless operations in just 3 ½ hours, Allied-Horizontal was able to minimize expenditures by sending the additional equipment needed for the job from our PA and OK facilities.

